

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/243,545DATE: 02/23/96
TIME: 12:54:51

INPUT SET: S8938.raw

This Raw Listing contains the General
Information Section and up to the first 5 pages.

SEQUENCE LISTING

1
2
3 (1) General Information:
4 (i) APPLICANT: Lyman, Stewart D.
5 Beckmann, M. Patricia
6
7 (ii) TITLE OF INVENTION: Ligands for flt3/flk-2 Receptors
8
9 (iii) NUMBER OF SEQUENCES: 8
10
11 (iv) CORRESPONDENCE ADDRESS:
12 (A) ADDRESSEE: Stephen L. Malaska, Immunex Corporation
13 (B) STREET: 51 University Street
14 (C) CITY: Seattle
15 (D) STATE: Washington
16 (E) COUNTRY: US
17 (F) ZIP: 98101
18
19 (v) COMPUTER READABLE FORM:
20 (A) MEDIUM TYPE: Floppy disk
21 (B) COMPUTER: Apple Macintosh
22 (C) OPERATING SYSTEM: Macintosh 7.0.1
23 (D) SOFTWARE: Microsoft Word, Version #5.1
24
25 (vi) CURRENT APPLICATION DATA:
26 (A) APPLICATION NUMBER: US 08/243,545
27 (B) FILING DATE: 11-MAY-1994
28 (C) CLASSIFICATION: 435
29
30 (vii) PRIOR APPLICATION DATA:
31 (A) APPLICATION NUMBER: US 08/162,407
32 (B) FILING DATE: 03-DEC-1993
33
34 (A) APPLICATION NUMBER: 08/111,758
35 (B) FILING DATE: August 25, 1993
36 (C) CLASSIFICATION:
37
38 (vii) PRIOR APPLICATION DATA:
39 (A) APPLICATION NUMBER: 08/106,463
40 (B) FILING DATE: August 12, 1993
41 (C) CLASSIFICATION:
42
43 (vii) PRIOR APPLICATION DATA:
44 (A) APPLICATION NUMBER: 08/068,394
45 (B) FILING DATE: May 24, 1993
46 (C) CLASSIFICATION:

ENTERED

RAW SEQUENCE LISTING PATENT APPLICATION US/08/243,545

DATE: 02/23/96
TIME: 12:54:54

INPUT SET: S8938.raw

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47
48 (viii) ATTORNEY/AGENT INFORMATION:
49 (A) NAME: Malaska, Stephen L.
50 (B) REGISTRATION NUMBER: 32,655
51 (C) REFERENCE/DOCKET NUMBER: 2813-C
52
53 (ix) TELECOMMUNICATION INFORMATION:
54 (A) TELEPHONE: (206) 587-0430
55 (B) TELEFAX: (206) 233-0644
56 (C) TELEX: 756822
57
58 (2) INFORMATION FOR SEQ ID NO:1:
59
60 (i) SEQUENCE CHARACTERISTICS:
61 (A) LENGTH: 879 base pairs
62 (B) TYPE: nucleic acid
63 (C) STRANDEDNESS: single
64 (D) TOPOLOGY: linear
65
66 (ii) MOLECULE TYPE: cDNA to mRNA
67
68 (iii) HYPOTHETICAL: NO
69
70 (iv) ANTI-SENSE: NO
71
72 (ix) FEATURE:
73 (A) NAME/KEY: misc feature
74 (B) LOCATION: 1..25
75
76 (ix) FEATURE:
77 (A) NAME/KEY: misc_feature
78 (B) LOCATION: 855..879
79
80 (ix) FEATURE:
81 (A) NAME/KEY: CDS
82 (B) LOCATION: 57..752
83
84
85 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:
86
87 GTCGACTGGA ACGAGACGAC CTGCTCTGTC ACAGGCATGA GGGGTCCCCG GCAGAG 56
88
89 ATG ACA GTG CTG GCG CCA GCC TGG AGC CCA AAT TCC TCC CTG TTG CTG 104
90 Met Thr Val Leu Ala Pro Ala Trp Ser Pro Asn Ser Ser Leu Leu Leu
91 1 5 10 15
92
93 CTG TTG CTG CTG CTG AGT CCT TGC CTG CGG GGG ACA CCT GAC TGT TAC 152
94 Leu Leu Leu Leu Leu Ser Pro Cys Leu Arg Gly Thr Pro Asp Cys Tyr
95 20 25 30
96 TTC AGC CAC AGT CCC ATC TCC TCC AAC TTC AAA GTG AAG TTT AGA GAG 200
97 Phe Ser His Ser Pro Ile Ser Ser Asn Phe Lys Val Lys Phe Arg Glu
98 35 40 45
99

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RAW SEQUENCE LISTING PATENT APPLICATION US/08/243,545

DATE: 02/23/96
TIME: 12:54:57

INPUT SET: S8938.raw

100	TTG ACT GAC CAC CTG CTT AAA GAT TAC CCA GTC ACT GTG GCC GTC AAT	248
101	Leu Thr Asp His Leu Leu Lys Asp Tyr Pro Val Thr Val Ala Val Asn	
102	50 55 60	
103		
104	CTT CAG GAC GAG AAG CAC TGC AAG GCC TTG TGG AGC CTC TTC CTA GCC	296
105	Leu Gln Asp Glu Lys His Cys Lys Ala Leu Trp Ser Leu Phe Leu Ala	
106	65 70 75 80	
107		
108	CAG CGC TGG ATA GAG CAA CTG AAG ACT GTG GCA GGG TCT AAG ATG CAA	344
109	Gln Arg Trp Ile Glu Gln Leu Lys Thr Val Ala Gly Ser Lys Met Gln	
110	85 90 95	
111		
112	ACG CTT CTG GAG GAC GTC AAC ACC GAG ATA CAT TTT GTC ACC TCA TGT	392
113	Thr Leu Leu Glu Asp Val Asn Thr Glu Ile His Phe Val Thr Ser Cys	
114	100 105 110	
115		
116	ACC TTC CAG CCC CTA CCA GAA TGT CTG CGA TTC GTC CAG ACC AAC ATC	440
117	Thr Phe Gln Pro Leu Pro Glu Cys Leu Arg Phe Val Gln Thr Asn Ile	
118	115 120 125	
119		
120	TCC CAC CTC CTG AAG GAC ACC TGC ACA CAG CTG CTT GCT CTG AAG CCC	488
121	Ser His Leu Leu Lys Asp Thr Cys Thr Gln Leu Leu Ala Leu Lys Pro	
122	130 135 140	
123		
124	TGT ATC GGG AAG GCC TGC CAG AAT TTC TCT CGG TGC CTG GAG GTG CAG	536
125	Cys Ile Gly Lys Ala Cys Gln Asn Phe Ser Arg Cys Leu Glu Val Gln	
126	145 150 155 160	
127		
128	TGC CAG CCG GAC TCC TCC ACC CTG CTG CCC CCA AGG AGT CCC ATA GCC	584
129	Cys Gln Pro Asp Ser Ser Thr Leu Leu Pro Pro Arg Ser Pro Ile Ala	
130	165 170 175	
131		
132	CTA GAA GCC ACG GAG CTC CCA GAG CCT CGG CCC AGG CAG CTG TTG CTC	632
133	Leu Glu Ala Thr Glu Leu Pro Glu Pro Arg Pro Arg Gln Leu Leu Leu	
134	180 185 190	
135		
136	CTG CTG CTG CTG CTG CCT CTC ACA CTG GTG CTG CTG GCA GCC GCC TGG	680
137	Leu Leu Leu Leu Leu Pro Leu Thr Leu Val Leu Leu Ala Ala Ala Trp	
138	195 200 205	
139		
140	GGC CTT CGC TGG CAA AGG GCA AGA AGG AGG GGG GAG CTC CAC CCT GGG	728
141	Gly Leu Arg Trp Gln Arg Ala Arg Arg Arg Gly Glu Leu His Pro Gly	
142	210 215 220	
143		
144	GTG CCC CTC CCC TCC CAT CCC TAGGATTCGA GCCTTGTCGA TCGTTGACTC	779
145	Val Pro Leu Pro Ser His Pro	
146	225 230	
147		
148	AGCCAGGGTC TTATCTCGGT TACACCTGTA ATCTCAGCCC TTGGGAGCCC AGAGCAGGAT	839
149		
150	TGCTGAATGG TCTGGAGCAG GTCGTCTCGT TCCAGTCGAC	879
151		
152	(2) INFORMATION FOR SEQ ID NO:2:	

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/243,545DATE: 02/23/96
TIME: 12:55:01

INPUT SET: S8938.raw

153

154

(i) SEQUENCE CHARACTERISTICS:

155

(A) LENGTH: 231 amino acids

156

(B) TYPE: amino acid

157

(D) TOPOLOGY: linear

158

159

(ii) MOLECULE TYPE: protein

160

161

162

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

163

164 Met Thr Val Leu Ala Pro Ala Trp Ser Pro Asn Ser Ser Leu Leu Leu

165

1

5

10

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166

167 Leu Leu Leu Leu Leu Ser Pro Cys Leu Arg Gly Thr Pro Asp Cys Tyr

168

20

25

30

169

170 Phe Ser His Ser Pro Ile Ser Ser Asn Phe Lys Val Lys Phe Arg Glu

171

35

40

45

172

173 Leu Thr Asp His Leu Leu Lys Asp Tyr Pro Val Thr Val Ala Val Asn

174

50

55

60

175

176 Leu Gln Asp Glu Lys His Cys Lys Ala Leu Trp Ser Leu Phe Leu Ala

177

65

70

75

80

178

179 Gln Arg Trp Ile Glu Gln Leu Lys Thr Val Ala Gly Ser Lys Met Gln

180

85

90

95

181

182 Thr Leu Leu Glu Asp Val Asn Thr Glu Ile His Phe Val Thr Ser Cys

183

100

105

110

184

185 Thr Phe Gln Pro Leu Pro Glu Cys Leu Arg Phe Val Gln Thr Asn Ile

186

115

120

125

187

188 Ser His Leu Leu Lys Asp Thr Cys Thr Gln Leu Leu Ala Leu Lys Pro

189

130

135

140

190

191 Cys Ile Gly Lys Ala Cys Gln Asn Phe Ser Arg Cys Leu Glu Val Gln

192

145

150

155

160

193

194 Cys Gln Pro Asp Ser Ser Thr Leu Leu Pro Pro Arg Ser Pro Ile Ala

195

165

170

175

196

197 Leu Glu Ala Thr Glu Leu Pro Glu Pro Arg Pro Arg Gln Leu Leu Leu

198

180

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190

199

200 Leu Leu Leu Leu Leu Pro Leu Thr Leu Val Leu Leu Ala Ala Ala Trp

201

195

200

205

202

203 Gly Leu Arg Trp Gln Arg Ala Arg Arg Arg Gly Glu Leu His Pro Gly

204

210

215

220

205

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/243,545DATE: 02/23/96
TIME: 12:55:04

INPUT SET: S8938.raw

206 Val Pro Leu Pro Ser His Pro
207 225 230
208

209 (2) INFORMATION FOR SEQ ID NO:3:
210

211 (i) SEQUENCE CHARACTERISTICS:
212 (A) LENGTH: 24 base pairs
213 (B) TYPE: nucleic acid
214 (C) STRANDEDNESS: single
215 (D) TOPOLOGY: linear
216

217 (iii) HYPOTHETICAL: NO
218

219 (iv) ANTI-SENSE: NO
220

221 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:
222

223 TCGACTGGAA CGAGACGACC TGCT
224
225

24

226 (2) INFORMATION FOR SEQ ID NO:4:
227

228 (i) SEQUENCE CHARACTERISTICS:
229 (A) LENGTH: 20 base pairs
230 (B) TYPE: nucleic acid
231 (C) STRANDEDNESS: single
232 (D) TOPOLOGY: linear
233

234 (iii) HYPOTHETICAL: NO
235

236 (iv) ANTI-SENSE: NO
237

238 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:
239

240 AGCAGGTCGT CTCGTTCCAG
241

20

242 (2) INFORMATION FOR SEQ ID NO:5:
243

244 (i) SEQUENCE CHARACTERISTICS:
245 (A) LENGTH: 988 base pairs
246 (B) TYPE: nucleic acid
247 (C) STRANDEDNESS: single
248 (D) TOPOLOGY: linear
249

250 (ii) MOLECULE TYPE: cDNA to mRNA
251

252 (iii) HYPOTHETICAL: NO
253

254 (iv) ANTI-SENSE: NO
255

256 (ix) FEATURE:
257

257 (A) NAME/KEY: CDS
258 (B) LOCATION: 30..734